2 Product Specifications

2-1 Specifications

Item	Description	
LCD Panel	TFT-LCD panel, RGB vertical stripe, normaly white, 15-Inch viewable, 0.297 mm pixel pitch	
Scanning Frequency	Horizontal : 30 kHz ~ 60 kHz (Automatic) Vertical : 56 Hz ~ 75 Hz (Automatic)	
Display Colors	16.2 Million colors	
Maximum Resolution	Horizontal : 1024 Pixels Vertical : 768 Pixels	
Input Video Signal	Analog 0.7 Vp-p ± 5% positive at 75 Ω, internally terminated	
Input Sync Signal	Type : Seperate H/V Level : TTL level	
Active Display Horizontal/Vertical	304.1 mm / 228.1 mm	
AC power voltage & Frequency	AC 110 ~ 240V, 50 Hz ~ 60 Hz	
Power Consumption	40 W	
Dimensions(W x D x H) Set Package	 14.2 x 2.5 x 13.3 Inches (360.2 x 64.2 x 338.6 mm)(State of stand disassembled) 14.2 x 7.6 x 15.5 Inches (360.2 x 192.9 x 396.5 mm)(State of stand installed) 18.4 x 17.0 x 6.0 Inches (467 x 431 x 153 mm)	
Weight Set	 3.6 Kg (7.9 lbs)	
Environmental Considerations	Operating Temperature : 50 °F ~ 104 °F (10 °C ~ 40 °C) Operating Humidity : 10 % ~ 80 % Storage Temperature : -4 °F ~ 113 °F (-20 °C ~ 45 °C) Storage Humidity : 5 % ~ 95 %	
TV System	Tunning	Frequency Synthesize
	System	NTSC-M, PAL/Secam_L/L(Euro multi)
	Sound	MONO, STEREO, SAP, A2/Nicam
Antena Input	75Ω, Coaxial Cable	
Sound Characteristic	– MAX Internal speaker Output : Right => 2.5W Left => 2.5W	
	– Headphone Out: 10mW max (3.50 Stereo Jack 32) – Output Frequency : RF => 80 Hz ~ 15 kHz at -3dB A/V => 80 Hz ~ 20 kHz at -3dB	

2-2 Pin Assignments

2-2-1 Scart

No	PIN
1	Sound R out
2	Sound R In
3	Sound L out
4	GND
5	GND
6	Sound L In
7	Cb
8	ID
9	GND
10	NC
11	Y
12	NC
13	GND
14	GND
15	Cr
16	BL In
17	GND
18	GND
19	Video Out
20	Video In
21	GND

2-2-2 S-Video

Pin	Separate
1	GND
2	Y
3	C
4	GND
5	GND

2-2-3 A/V

RCA Yellow	CVBS
RCA White	Audio L
	GND
RCA Red	Audio R
	GND

2-2-4 D-SUB

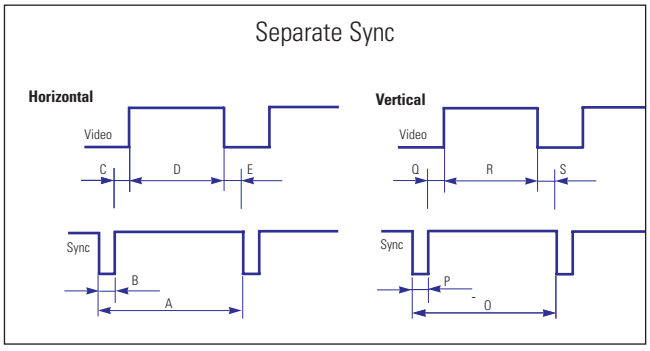
Pin	Separate
1	Red
2	Green
3	Blue
4	GND
5	GND (DDC Return)
6	GND-Red
7	GND-Green
8	GND-Blue
9	No Connection
10	GND-Sync / Self Test
11	GND
12	DDC Data
13	H - Sync
14	V - Sync
15	DDC Clock

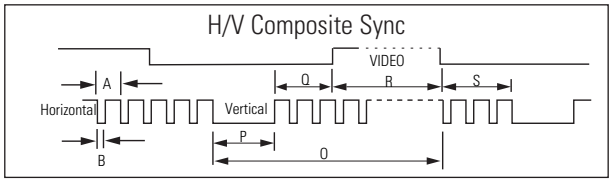
2-3 Timing Chart

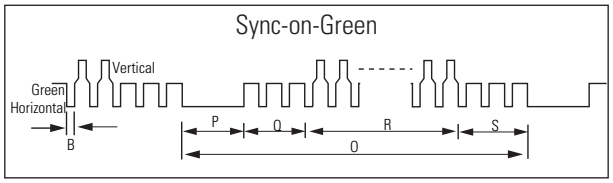
This section of the service manual describes the timing that the computer industry recognizes as standard for computer-generated video signals.

Table 2-1 Timing Chart

Mode / Timing	IBM		VESA			
	VGA2/ 70 Hz 720 x 400	VGA3/ 60 Hz 640 x 480	640/75 Hz, 60Hz, 72Hz 640 x 480	800/75 Hz, 56Hz, 60Hz, 72Hz 800 x 600	1024/60Hz 1024 x 768	1024/75Hz 1024 x 768
fH (KHz)	31.469	31.469	37.500	46.875	48.363	60.023
A µsec	31.777	31.778	26.667	21.333	20.677	16.660
B µsec	3.813	3.813	2.032	1.616	2.092	1.219
C µsec	1.589	1.589	3.810	3.232	2.462	2.235
D µsec	26.058	26.058	20.317	16.162	15.754	13.003
E µsec	0.318	0.318	0.508	0.323	0.369	0.203
fV (Hz)	70.087	59.940	75.000	75.000	60.004	75.029
O msec	14.268	16.683	13.333	13.333	16.666	13.328
P msec	0.064	0.064	0.080	0.064	0.124	0.050
Q msec	0.858	0.794	0.427	0.448	0.600	0.466
R msec	13.155	15.761	12.800	12.800	15.880	12.795
S msec	0.191	0.064	0.027	0.021	0.062	0.017
Clock Freq. (MHz)	28.322	25.175	31.500	49.500	75.000	78.750
Polarity H.Sync	Negative	Negative	Negative	Positive	Negative	Positive
V.Sync	Positive	Negative	Negative	Positive	Negative	Positive
Remark	Separate	Separate	Separate	Separate	Separate	Separate







A : Line time total	B : Horizontal sync width	O : Frame time total	P : Vertical sync width
C : Back porch	D : Active time	Q : Back porch	R : Active time
E : Front porch		S : Front porch	

Memo